Appl. No. 10/002,712 Amdt. dated December 4, 2003 Reply to Office Action of July 11, 2003

## Amendments to the Abstract:

Please replace the abstract on page 23 with the following replacement abstract:

The present invention provides high thoughput screening systems for identifying compounds that modulate the biological activity of a biochemically-functional sarcomere. The method can be performed in plurality simultaneously with fluorescence or absorbance readouts.

Methods for purifying actin are provided. The methods generally involve the addition of a magnesium salt in a sufficient quantity, whereby G-actin polymerizes to form actin paracrystals, which can be recovered as a purified form of actin.